G R S 58]

*Previous references*

1910-11
(Education)

*Later references*

File No 112 87 10

Serial Nos

# GENERAL AND REVENUE SECRETARIAT

*Serial Nos*

Part B for September, 1911

SUBJECT

University Inspection Committee
Report November, 1910

No Serials in this
Collection

GPS—10,000—12-3-13

W Montgomery

Serial No

University Inspr Comm Report
November 1910

As regards the Central College, the University wants a Report by the 15th August 1911 on the following points

1) To take steps towards providing adequate & suitable accommodation for Natural Science teaching

2) To note the deficiencies in the present stock of physical apparatus

3) To add to the Library where it has been shown to be defective

Temporary accommodation has been made available for the Natural Science teaching in the Agricultural Chemists' Laboratory

Liberal provision has been sanctioned for the Physical Science

Say that the room in the Chemical Lab^y was found too small & cramped & a better lighted room of the same size for work has been given in the same building. This also saves the students the time of going & returning from a different building & a long way off

No; accommodation has been found in the existing buildings, therefore GPS



GPB—50 000—12-8 10

Serial No

of Bretschneider's historical maps of Europe.

Sealed
hw
8b
8/8/11

The D.G. may perhaps be asked whether action is being taken in the matter of the report. (Perhaps he will report to the Syndicate)

2nd p.m.
yes.
8/8/11

8/8/11

Is the reply to be sent from the D.G.'s office or here? I should like to know what was done on the last occasion. This may wait till the D.G.'s comments on the subject which is ready will be received.

What has been done about the Geology class room? I believe a D.O. letter has been



CPB—0000—12810

GRS 13]

## Routine Notes

[To be used only for notes, requisitions, etc, not intended for permanent record]

No 13456
8-9-11

To the Secretary for Kindly noting whether any further action has to be taken in the Dewan's Office

ku
12 9 11

BrTV
M
12/9/11
-12 9 11

No further action is necessary The Dy Gl has given a reply to the University Registrar & this file has also been submitted to the Dewan with D No 1009 on 8/9/11

X 13456
-- 11 --

A B—Should routine notes be written on small slips the notes must be copied or slips pasted on this form

To H Segunta Dewan
18/9/11
18/9/11

GPB—30 000—23 2 11

File
TV
ku
18/9/11

D O

OFFICE OF THE INSPECTOR GENERAL OF EDUCATION
IN MYSORE

Bangalore 24th April 1911

Dear Mr Brown

I am sending herewith
a copy of my letter on the
subject of the Summer Sch-
ol to the Resident asked as le-
arned. I shall see what
I can do for you.

I shall arrange in the
h form a time as you suggest
do here,

Yours sincerely
C Krishnaswamy

their full share of work as Professors

G, R p 11 Sec 8 — The Commission also recommend Departmental arrangements in first grade Colleges i e they would have the entire staff of a particular branch being placed for work under the Professor of the subject allowing him to submit periodical reports of requirements etc to the Principal These reports are to be preserved in the College office for purposes of information and reference

— do — 4 The Commission further recommend that the Colleges and High Schools attached to Colleges be separated as far as possible This does not call for any action as in the Maharaja's College the separation has been made as far as possible

G, R p 10 Sec 5 — 5 The next general remark is in regard to the preservation of records of work done by students in Colleges This is of application particularly where practical work is concerned Attention of Principals may be drawn to this remark

G, R p 10 Sec 6 — 6 The remarks of the Commission in regard to the indexing of libraries, and their being constituted in two sections -a general library and a class library deserve the attention of Principals

G, R p 12 Sec 10 — 7. The next observation calling for attention is the recommendation that Syndicate do exercise this power under by law 352-353 (new 381 and 382) in case the Colleges do not take early steps to remedy defects pointed out, and that first grade Colleges be asked to report satisfactory equipment and staff before July 1911

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II Proceeding to the detailed report upon the Colleges the Commission make no remark that calls for attention in respect of the Maharani's College ~~(1) Residence fo~~

a Mechanic and additional laboratory attenders. Recommendations have been made for two more demonstrators, a Mechanic and 2 more attenders No recommendations have been made by the Principal concerning the arrangement suggested in regard to the Mathematics Professor

II Chemistry -

C I C R pp 374 The proposed accommodation in the new chemical Laboratory is considered generally suificient but for alterations in detail which may be necessary Whether enough accommodation has been provided for separately for Branch II A analytical work and whether a separate p 4 (a) organic Chemistry Laboratory is not desirable are observations that call for notice

The Principal makes no remark on the first point, but as to the second he says that the Chemistry Professor does not consider a separate Laboratory for organic Chemistry necessary and if it should be found necessary later, he is of opinion that an additional room could easily be added to the first floor of the Projected building

The Commission consider that the present accommodation is unsatisfactory, and suggest that when the present building should be vacated by the Physics Section the 3rd last para verandah may be fitted for quantitative chemical work for Branch II A and the Chemistry laboratory set apart exclusively for the Intermediate Chemistry The Principal makes no remark and his attention may be drawn to this observation and the folloing a, b, c

(a) They insist upon water being laid on to the Chemical lecture table

p 5 (6) (c) (d) (b) Provision has to be made for heavy recurring expenditure

(c) A good deal of volumetric apparatus and a number of

7

building for natural science but would put it off till after the completion of the Chemistry laboratory.

A number of analytical balances are required, as also two additional spectrometers

~7 16

Government have been requested to make the accommodation in the Agricultural Chemist's laboratory available at once The attention of the Principal may be called to the other points

Matheratics -

~ 2 Sec 8

The present accommodation is considered neither good enough nor adequate More room can be made available when the laboratories are completed

The equitorial telescope and sextent ought, according to the Commission be placed in charge of the Mathematics Profes or who teaches astronomy

~7 17

~ 2 Sec 8

They also recommend the institation of a separate department for mathematics

~ 6 last but one

When the special buildings are completed the old building is considered adequate for general purposes

Library

~ 8 25 & 26

— The College Hall is considered suitable for the library for which considerable additions have to be made A grant of Rs 5,000/- is recommended to make up drawbacks

-------o------

22/4/44

(11) an Electricity and Magnetism laboratory (35 × 30 )
(12) a general Physics laboratory for Heat Sound and Molecular Physics (35 × 30′)
(13) a room for the staff (35 × 17 )
14) an optical room (50 × 17 ) and
(15) a photo dark room (35 × 11 )

There is a proposal to construct a second story of one room immediately over the large staircase and under the tower to be used as a library and reading room It is recommended that this be carried out now before building and fitting operations are completed When thus equipped the college will have made satisfactory arrangements so far as building and accommodation goes for the teaching of Physics to both the Intermediate and B A classes

(*b*) The furniture is being made and it and the fittings seem to be suitably designed but a great deal still remains to be done

(*c*) Only about Rs 6 000 has been spent recently on Physical apparatus Rs 10 000 has been sanctioned for Physical equipment but even this will not equip fully all the branches of Physics that ought to be taught to students reading up to the B A standard It is recommended that a comparatively large provision be made for expenditure under this head for two more years at least in addition to the provision that must be made yearly to meet the necessary recurring expenditure

(*d*) It has been proposed that the assistant to the Professor of Mathematics, who is qualified should teach the applied Mathematics and that a room and the apparatus necessary be placed at his disposal by the Professor of Physics A better arrangement would seem to be to place this assistant completely on the Physics staff (as assistant to the Professor of Physics) and that the Physics Department be responsible for the entire conduct of the Physical portions of the Pass B A Mathematics syllabus Another assistant in Mathematics will then be necessary Additional demonstrators will be necessary in Physics in July 1911 A mechanic on Rs 70 per mensem has been sanctioned but has not yet been appointed The three attenders now employed will not be sufficient for working a large laboratory with workshop and electrical plant and more will be required when the new block is brought into use

*CHEMISTRY*

(*a*) The plans for the proposed two storied chemical block may require alterations in detail but appear to provide the following accommodation —

*On the ground floor—*

(1) a large lecture theatre (38′ × 40 ) suitable for seventy five students with a preparation room and an apparatus store room adjoining (each 17′ × 18 )
(2) a small lecture room (27 × 26 ) with a preparation room (11 × 15′)
(3) a Physico Chemical laboratory (36 × 40 ) and adjoining this a library and a balance room (19 × 21 ) a workshop (15′ × 27 ) and a Professor s private laboratory and office (25 × 40 ),

*On the first floor—*

(4) an advanced laboratory for analytical and organic Chemistry (38 × 40 ) with a balance room and furnace room adjoining (each 17 × 18 )

(5) a large Intermediate laboratory (60 × 40 ) and adjoining this a balance room and chemical store room (each 19′ × 21 ) and a room for subordinate staff (15 × 38 )

When this block is ready for occupation which it is hoped to be in January 1913 there will be accommodation for some eighty Intermediate students in each year working in batches and for B A classes of considerable size Some attention should be given to the question whether sufficient room has been set apart for the analytical work of II A students and of the II B students for whom also the college desires to provide Further since analytical work will be going on all the year round there should be a separate laboratory for Organic Chemistry In the meantime and until July 1911 when the Physics classes move into their new block the Chemistry of the Intermediate classes and of the Physics B A students is being carried on in a quite inadequate space viz in two rooms—

(*a*) a lecture room (35′ × 42 ) with a preparation room (18 × 12 )

(*b*) a laboratory (35 × 32 ) fitted with benches for thirty two students

The specific drawbacks are as follow —

(1) The laboratory is used by the Intermediate classes in practical Physics and also to some extent for B A practical Physics so that the chemical laboratory is actually occupied by classes for nineteen hours (not period ) a week The result is that the Junior Intermediate class has practical work in Chemistry only once a fortnight

(2) There are only thirty two cupboards in the laboratory and there are 189 students doing Chemistry with the result that none of the Intermediate students have any apparatus of their own and every two B A students are obliged to share a set This is very undesirable

(3) There is no store room and the chemicals and chemical apparatus are scattered over several rooms

The main conclusion is that the space vacated by Physics in July 1911 will be required to give proper accommodation to Chemistry It must be remembered that the B A students in Physics will then be required to do quantitative work in Chemistry and it is suggested that the verandahs be furnished partly with working benches and partly as a balance room the present laboratory being retained for Intermediate Chemistry Unless this is done the provisional accommodation for Chemistry cannot be regarded as satisfactory

(*b*) The present laboratory furniture and fittings are antiquated but no detailed remarks are made since the construction

Degree A sum of Rs 15 000 has been sanctioned to bring it up to the required standard and ought to be quite sufficient for the purpose As there will be only two subjects for the B A Degree it is recommended that Rs 9 000 or Rs 10 000 out of this allotment be spent on the geological section which stands in need of considerable improvement the remaining Rs 6 000 or Rs 5 000 should be devoted to Zoology and Botany—to strengthen the library to enlarge the museum and to make other additions this should be sufficient to meet all immediate requirements As soon as space is available it is hoped that a good geological museum will be established It appears that the Professor of Geology has already applied for various articles necessary to bring the geological equipment to a proper standard viz microscopes crystal models minerals rocks micro sections specific gravity apparatus goniometer blowpipe sets fieldwork appliances tectonic models maps and books these are all necessary and it is hoped that they will be provided before the commencement of the new B A course If instead of Zoology Botany is taken as the complement of Geology the greater part of the sum suggested above for Zoology and Botany will have to be spent on that subject—to increase the library to provide larger botanical collections prepared botanical slides, histological requisites simple physiological apparatus more diagrams etc

12 It is recommended that students work singly rather than in pairs

14 (*a*) There is a satisfactory supply of oil gas at high pressure

(*b*) At present water for laboratory purposes is available from a 400 gallon tank which gives a head of only about seven feet It is proposed to install at the top of a water tower which forms part of the new Physics block a tank holding ten tons which will give over an atmosphere pressure even on the first floor of either the physical or the chemical block

(*c*) Suitable arrangements already exist for current supply

16 (*a*) A sufficient supply of students balances is available eight physical (maximum load 500 grams) and twelve chemical (200 grams to 1 milligram) A number of analytical balances weighing to 1/10 m g are required

(*b*) Two additional spectrometers are required for element ary work and one for advanced work

17 *Mathematics*

The college has a suitable four inch portable equitorial telescope but this is not in use Some structural alterations should be made to the roof of the building if possible in order to provide a place where this may be installed for observation purposes The stair leading to the roof of the main block is unsuitable and there is too much vibration on the roof of the new Physics block for accurate observations

The telescope and the sextant are in the custody of the Professor of Physics This is undesirable they should be placed in charge of the Professor who is responsible for the teaching of Astronomy who is here the Professor of Mathematics If the sextant is required for the Physics de partment another should be purchased for the Mathematical department

18 History is no longer taught in this college now that the old course for the First Examination in Arts has come to an end the college being affiliated only in groups I and II of the Intermediate courses

21 No alteration has taken place in the fee rate since last inspection and very liberal fee concessions are still made as will appear from the fact that twenty seven out of the sixty five students in the Intermediate and nineteen out of the fifty students in the B A classes are in receipt of more or less pecuniary assistance from the college

25 and 26 It is proposed to use the college hall for the library when the new physical science buildings are ready This will be a great improvement upon the present arrange ment Library hours are conducted under the supervision of one of the Professors of English It i intended that in the near future the library shall be re classified and a new catalogue printed An annual grant of Rs 1 500 is allotted to the library by the management A register is kept which shows the issues of books to individual students

Considerable additions should be made in Chemistry especially in Organic Chemistry a number of antiquated works should be weeded out Some reference books are now kept in the Physics verandah for the use of the staff it is recommended that all the physical and chemical works be transferred to the separate class libraries and placed under the care of the Professors The Natural Science library requires considerable strengthening more especially in Geology

27 The registers were inspected and found correct with the exception that in the admission register a few cases were noticed in which the date of birth had not been filled in

| | | | |
|---|---|---|---|
| Wednesday | September | 28 | Maharaja s College Pudukota |
| Thursday | | 29 | S P G College Trichinopoly |
| | | 29 | St Joseph s College Trichinopoly |
| Friday | | 30 | American Mission College Madura |
| Saturday | October | 1 | C M S College Tinnevelly |
| | | 1 | Sarah Tucker College Palamcottah |
| Monday | | 3 | Scott Christian College Nagercoil |
| Tuesday | | 4 | Maharaja s College for Girls Trivandrum |
| „ | | 4 | Maharaja s College Trivandrum |
| Thursday | | 6, | Ernakulam College |
| Friday | | 7 | B G M College Calicut |
| Saturday | | 8 | Brennen College Tellicherry |
| Monday | | 10 | Government College Mangalore |
| | | 10 | St Aloysius College Mangalore |
| Friday | | 14 | Victoria College Palghat |
| Saturday | | 15 | Coimbatore College |
| Monday | | 17 | Presidency College Madras |
| Tuesday | | 18 | Madras Christian College |
| Wednesday | | 19 | Pachaiyappa s College Madras |
| Thursday | | 20 | Wesley College Madras |
| Friday | | 21 | Doveton College Madras |
| Thursday | November | 3 | Voorhees College Vellore |
| Friday | | 4 | St Joseph s College Bangalore |
| | | 4 | Sacred Heart College Bangalore |
| | | 4 | Central College Bangalore |
| Saturday | | 5 | Maharaja s College Mysore |
| „ | | 5 | Maharani s College Mysore |

## III Procedure

A letter similar to that issued by the previous Commission was sent to each college advising the Management of the Inspection and of the requirements of the Commission At the inspections the same procedure was followed as in previous cases The enquiry as a rule followed the interiogatories which had been previously issued to the colleges and the replies of the Management thereto the detailed reports on the colleges which follow have therefore in the main direct reference to the various points raised by those interrogatories and replies

## IV General Observations

The following observations are made with a view to raising general questions for the consideration of the Syndicate some of them have reference to matters concerning which no precise directions are given either in the Universities Act 1904 or in the Regulations relating to the affiliation of colleges to the University

1 *HOSTELS*

(*A*) It is laid down in the Universities Act 1904 and in the Regulations that provision shall be made for the residence supervision and physical welfare of students But in view of the variety of conditions under which the different colleges exist it is not precisely stated in what way such provision shall be made The Commission has in some cases indicated its opinion as to the advisability of providing further hostel accommodation for students but it is fully conscious of the fact that the University has no power to make a demand upon colleges for such accommodation provided that the welfare of the students is properly safe guarded

in other directions and that suitable provision is made for inspection of the lodgings in which students live The Syndicate might well consider whether any general principles could be laid down for the direction of the colleges in this matter

(*B*) It must be admitted that no very useful purpose is likely to be served by insisting on the provision by some colleges of a hostel for the few students of the college classes who do not reside with relatives and for whom good accommodation can be provided otherwise but there are cases in which in the opinion of the Commission more hostel accommodation is urgently required For example in Madras out of 1 924 students belonging to the Arts Colleges only 469 live in hostels Of the others 787 live with parents or guardians while 668 live in lodgings If more suitable hostel accommodation were provided it is probable that some of those living with parents or guardians in addition to those who live in lodgings would avail themselves of it Again in Trichinopoly where it is very difficult to get suitable lodgings amidst unobjectionable surroundings more hostel accommodation ought to be provided

(*C*) Proximity of the hostel to the college while generally an advantage can hardly be regarded as such if the college itself is located amidst unsuitable surroundings in such cases it would seem desirable to have the hostel built away from the college in a locality where a site suitable from the point of view of health and seclusion could be obtained

(*D*) The Commission has observed that the *raison d etre* of the hostels which are attached to some colleges is mainly to provide accommodation for the schoolboys attending those institutions There can of course be no objection to accommodating schoolboys in hostels but as was pointed out by the Commission of 1905 the practice of putting boys attending the school department attached to those institutions and college students in the same room or in the same block save in exceptional cases (e g where they happen to be brothers or near relations) should be discouraged The Commission suggests further that the dormitory system is not in general suited to the requirements of college students

(*E*) The Commission has carefully inspected each of the hostels which have been already provided It will be seen from the individual detailed reports that much of this hostel accommodation is open to criticism The Commission considers that though the University may not have the right of demanding that any particular college should erect a hostel it is nevertheless entitled to review the character of such hostels as are actually in existence The chief defects which were noted in the existing hostels were imperfect ventilation and lighting The Commission recommends that the Managements of affiliated colleges be advised to take special care that these defects are not allowed to appear in any future erections or in extensions or additions to the hostels now in existence The simplest form of room would appear to be the most satisfactory A room with a door and window opposite each other will always allow of a through current of air and is therefore the most easily ventilated Some form of ventilation should be provided for the upper part of each room

(*F*) Some of the colleges have been almost lavish in their provision not only for the accommodation but for the comfort of their students Their hostels are in some cases expensively built and leave nothing to be desired even in the minor details The following items were noted and might be brought to the notice of other colleges as being worthy of imitation even though they may not be considered absolutely indispensable —

(*a*) isolated sick rooms for cases of emergency
(*b*) Manager or Warden s lodge either as a part of the building or adjacent thereto

They have not in any single case that came to the notice of the Commission called for estimates of the initial and recurring expenditure that is involved in building furnishing fitting equipping and staffing the laboratories that are absolutely essential to the conduct of efficient instruction in science They do not always seem to have consulted the college lecturers in science who even if consulted are unfortunately very frequently ill prepared to offer competent advice These estimates are of a highly specialized character and can be drawn up only by the specialist who has devoted a large amount of time to their study and has had experience in the working of laboratories New buildings have been erected or are in course of erection in several places but these buildings are not always designed so suitably as they might be This is one result of the fact noticed in more than one instance that the building had been designed by architects who had no knowledge of the requirements of laboratories and who had not consulted the science lecturer as to his requirements Such a course is departmental in the extreme and should not be permissible in work connected with the University and its affiliated colleges

It might be brought to the notice of all college authorities that no chemical laboratory is properly equipped without a supply of water and gas and that every first grade college teaching physics requires in addition a supply of electric current In small second grade colleges the supply from primary batteries will suffice but for large second grade colleges and for all first grade colleges an electric plant with storage cells is absolutely necessary if the work is to be efficiently carried out All colleges require some additions to their present equipment in science The apparatus provided in most second grade colleges is based on a list drawn up by the Boards of Studies and communicated to the colleges This list is based upon a certain selection of experiments which need not of necessity be adopted in every college it does not contain any demonstration apparatus and requires supplement and modification in several respects according to the courses of instruction to be followed in the different colleges Some lecturers not excluding a few who are engaged in first grade colleges do not seem to appreciate the difference between *demonstration experiments* i e those done by the lecturer himself during the course of his lectures which are in many cases merely qualitative in character and *practical work* which is the practical course of experiments done by the students themselves and which should be mainly quantitative in character This lack of appreciation of the difference between these two branches of work results in imperfect equipment and inefficient instruction Some few colleges are in addition providing themselves with apparatus for the Intermediate classes which is suitable only for schools and unsuitable for the more accurate work that is required to be done by colleges Spectroscopes are in general of little use for accurate college work in practical physics since they are usually unprovided with any measuring scale Spectrometers are required for spectrum measurements They are more expensive than spectroscopes but one for every six students is recommended For balance work Intermediate students require one balance for every four students There is a large variety of modern galvanometers now available some of them comparatively cheaply made the cost of others running into large figures It is recommended that all colleges teaching electricity should provide themselves with several types so that students may have opportunities of studying and working with different forms of this instrument the most expensive galvanometers being purchased only for work in Honours

Lecturers seemed to have displayed little energy in endeavouring to utilize to its best advantage the apparatus that the colleges possessed or in giving attention to necessary repairs It was noticed for example that the insulation of several tangent galvanometers had broken down and that the suspending wire of many suspension galvanometers was broken and no endeavour seemed to have been made to have these instruments repaired and brought into use The result has been that apparatus

costing hundreds of rupees has been practically thrown away for the lack of a little energy patience and ability to repair small defects All repairs should be done locally if possible under the immediate supervision of the lecturer in charge and no college should be considered fully equipped for the teaching of physics and chemistry if it is not provided with a lathe and tools and a mechanic to undertake repairs and to make simple pieces of apparatus

Laboratory organization management and control is a branch of knowledge that is practically unknown to the majority of science lecturers in affiliated colleges It has been studied by them neither theoretically nor practically and their attention may well be directed to it if their laboratories and general science work is to be properly conducted Several important principles should however be brought to their notice for immediate action if the training of the students who come under their influence is to be of any real value The teacher should first study carefully the course laid down by the University for the subject which he intends to teach He should then draw up a general syllabus based on the University instructions and afterwards a detailed syllabus of the work he intends to cover throughout the course He should then draw up a list of the experiments that are to be done practically by the students and those that are to be done experimentally by him in his lectures He should note in connection with each experiment the apparatus required for carrying it out and then consolidate the whole into one large list of necessary apparatus noting at the same time the numbers of the same pieces of apparatus that may be required so that more than one student may work at the same experiment at one and the same time This will be the list of his immediate requirements and all pieces of apparatus not already possessed by the college should be immediately ordered or noted for early order so that what cannot be at once ordered should be kept on record for order when money is again available Very few colleges have kept a running list of necessary apparatus in which they have noted down things that they found necessary from week to week as the work progressed These running lists facilitate the preparation of indents and the ordering of the most essential pieces of apparatus as money becomes available Registers containing the lists of experiments should then be drawn up so that a record may be kept of the individual work of each student These registers may take several forms but the card index form seems preferable to the book form each student s work being entered on a separate card which contains a printed list of the experiments that may be performed by students The majority of the science teachers in second grade colleges and a few also in first grade colleges seem to have entered on the teaching of their practical work without any definite aim or system They have trusted to chance to bring them safely to the end of it They have not read and consulted authoritative works and persons where they have been evidently at fault owing to their inexperience This has led to insufficient equipment and inefficient instruction In more than one institution it was found that lecturers had purchased apparatus of the use of which they were either partially or totally ignorant Such lecturers had clearly no previously formulated syllabus or scheme of work drawn up Extremely few institutions have made any estimate of the recurring expenditure necessary to keep up their laboratories and fewer still have made any provision for meeting this expenditure A special allotment is necessary to meet the annual recurring expenditure of each laboratory this being in general greater in a chemical than in a physical laboratory On the other hand however the initial cost of equipping a physical laboratory is greater than that required for a chemical laboratory

In the Intermediate classes it is desirable that the lecturer who delivers the lectures on any science subject should certainly engage himself with part—even if he cannot engage himself with the whole—of the practical work of the students to whom he lectures A closer co ordination of the work which tends towards more efficient instruction is thereby introduced In the case of some of the larger colleges where sounder methods of instruction are expected to prevail it was unfortunately found that

validity of the annual attendance certificates which are a necessary qualification for students sitting for University Examinations In some of the colleges it would appear to be quite possible for some evil disposed person to tamper with and falsify these registers without the possibility of detection

## 8 *COLLEGE ORGANIZATION*

Colleges are by nature and tradition conservative and this is nowhere more clearly shown than in college organization The internal organization of the majority of both first and second grade colleges is capable of much improvement and development and the attention of principals might be invited to this The work that devolves on the principal of a second grade college in virtue of his duties as principal is not very large and he has in general time to carry out these duties efficiently in addition to his tutorial and lecturing work in the college The contrary is however the case with several principals of large first grade colleges Their duties as principals are responsible and heavy and since they are also engaged in professorial work insufficient time is left to them to devote themselves to the development and improvement of the organization of their colleges if they desire to keep in touch with recent advances in their own subjects Most colleges have for some time experienced the need for the institution of separate departments for separate subjects or groups of allied subjects of instruction and some of the larger colleges have already adopted this system of departmentalism It is recommended that the system be adopted in all colleges affiliated to the University that the chief lecturers or professors in charge of departments be held responsible for the whole of the work and internal management of these departments that they be called upon annually to state what they consider to be the requirements in the shape of accommodation furniture books apparatus etc for the proper conduct and development of the teaching of the subjects for which they are responsible and that these statements be filed in the college so that they may be available when required for reference by the University authorities and that the work of the several departments and the staff employed be kept as distinct and separate as possible Where departmental organization is properly carried out the work of the principal should be considerably diminished

It was noted that in most colleges which have a high school attached to them the work of the college was affected—generally disadvantageously—by a consideration of the needs of the school in such matters as in drawing up time tables in appointing the staff and arranging its work in accommodating the classes in the purchase of furniture etc A complete separation of college from high school in these institutions is doubtless extremely difficult to effect but it would be to the interest of the college departments to separate them from the school departments in finance budget allotments teaching staff buildings and inspection by Government Inspectors of Schools in fact to effect as complete a separation as possible College training should differ and where properly carried out does differ essentially from high school training any confusion of the instruction and training in the two departments is to be strongly deprecated

## 9 *INSPECTION*

The first Inspection Commission of 1910 drew attention to the value of the opportunity afforded to the affiliated colleges at visits of University Commissions of receiving not only criticism but competent advice and support in their endeavours to reach and maintain a state of efficiency This Commission is aware that there were good and sufficient reasons for allowing an interval of five years to elapse before such a general inspection as that of 1905 was followed by another An inspection of the second grade colleges before they had fully entered upon the new Intermediate

Courses of tudy which began in 1909 would scarcely have been as useful to the Syndicate or as profitable to the colleges as the inspections of 1910 should prove to be It is to be hoped however that the Syndicate will be able to arrange for future inspections at shorter intervals In 1911 the first grade colleges will commence the new courses of study for the B A Degree the Inspection Reports of 1910 should furnish the Syndicate with a general statement of the provision which is now being proposed by each of the colleges to meet the requirements of these new courses but it is probable that when the colleges are actually engaged in their new work difficulties and deficiencies will become evident which are not now fore seen Also there is still much to be done by the majority of the second grade col leges before they can be considered efficient In some cases the buildings required for the neces ary accommodation of students are at present in course of erection in others they are only in contemplation The difficulties of providing the requisite staff are yet to be overcome The Commission strongly recommends that if for some unforeseen reason it is found impossible to arrange for another general inspec tion of colleges at the end of the next two or three years the second grade colleges at least should be visited by one or two persons (whose services for a few months should be specially retained by the Syndicate for the purpose) so that the precise condition of each college with respect to staff accommodation and equipment may be ascertained

In this connexion it may be observed that though some of the second grade colleges receive on occasion valuable advice from Government Inspectors there seems to be no uniformity of action as to their inspections Some Inspectors do not include the inspection of the second grade colleges among their duties the advice given by others was sometimes found to be more in accordance with school than with college traditions and requirements and in one instance at least the college time table had been altered prejudicially by an Inspector who viewed it rather from a Departmental than from a University standpoint

10 *AFFILIATION*

Some of the colleges are affiliated in groups of subjects in which they offer no in struction to students for example out of the thirteen colleges affiliated in Natural Science for the Intermediate Examination only nine are actually teaching it The Commission recommends that the Syndicate should take into consideration the advisability of moving the disaffiliation of any college in any group in which for a certain prescribed length of time it fails to make due provision for imparting instruction

It was noticed that no action seemed to have been taken by several colleges until comparatively recently with a view to remedying the several defects that were pointed out to them in 1906 in the first Inspection Commission report Colleges might be informed that the Syndicate will view with displeasure the cases of colleges which defer acting upon those recommendations of the Commission which are accepted by the Syndicate In particular the Commission suggests that the authorities of such of the affiliated colleges as may be required to furnish within a specified time (*vide* Regulation 352) a report that effective measures have been taken by them to provide practical training in the science groups of the Intermediate and B A courses as the case may be be also warned that unless such reports are received from these colleges within the specified time the Syndicate will have to consider whether the provisions of Regulation 353 ought not to be put into operation

## V Reports on Inspected Colleges

In submitting the following detailed Reports on the colleges inspected the Commission recommends that if these Reports are adopted by the Syndicate the

XIV What arrangements have been made for supplies of
(*a*) gas
(*b*) water
(*c*) electric current?

XV What arrangements have been made for the supply of specimens for class illustration and practical work in Natural Science?

XVI Give the number (with detailed description of each) of the following which have been provided —
(*a*) balances
(*b*) galvanometers
(*c*) spectrometers

XVII State what arrangements you propose to make for teaching groups I II and III of the Ordinary B A Degree Course in respect of
(*a*) buildings and accommodation (*dimensions to be given*)
(*b*) furniture and fittings
(*c*) equipment
(*d*) staff

XVIII Give a list of the maps diagrams etc which have been supplied for the teaching of History and state whether they are regularly used for this purpose? Has any attempt been made to provide illustrations photo graphs etc ?

XIX If a high school is attached to your college are accounts for the two departments maintained separately?

XX Is there any important change in your general financial position since last inspection?

XXI Are fees levied at *definite rates* and are these rates published?

XXII Have any cases come to your notice of unfair competition in the matter of fees or fee concessions between your college and neighbouring colleges?

XXIII Are scholarships and tuition fee concessions given on definite published terms?

XXIV State the amounts that have been spent since 1st January 1906 on
(*a*) buildings
*b* furniture
(*c*) library
*d* mathematical appliances
(*e*) physical apparatus
(*f*) chemicals
(*g*) chemical apparatus
(*h*) zoological botanical and geological specimens and illustrations
(*i*) historical maps diagrams and illustrations

What portion of each of the above sums was contributed out of college funds as distinguished from Government grants? [*Expenditure on school departments is to be carefully excluded*]

XXV If any defects in your library have been noted in the Commission s report on your college what steps have been taken to remove them?

XXVI Have the recommendations (*e*) (*f*) (*g*) page 25 of the Commission s report b en given effect to?

XXVII Are all the registers and records detailed on page 25 of the Commission s report being regularly maintained?

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*Mr Ramunni Menon wishes to add the following note to the Report on the Central College Bangalore*

With regard to the B A Natural Science staff I am of opinion that the present staff with the addition of one or two demonstrators will be competent to teach Geology as the main and Zoology as the subsidiary subject It is highly desirable however—and this is especially so in view of the advanced study of the Biological Science which it is the intention of the Mysore Government to develop—that the chief Professors should possess European qualifications and the addition to the present staff before long of at least one such Professor is strongly recommended It is also my opinion that to place the Professor of one branch under the authority of the Professor of another branch will from the point of view of efficiency and progress be a retrograde step While regretting my inability to agree entirely with the opinion expressed by the other members of the Commission I am aware that it is entitled to the greatest consideration and I beg to take the liberty of suggesting that the Syndicate should if they think they should be guided by the opinion of a biologist invite the opinion of the Hon ble Dr Bourne

(Signed) K RAMUNNI MENON

# University of Madras.

## Appendix to the Report of the Inspection Commission, 1910, on

## Maharaja's College, Mysore

The Management are required to provide a better supply of maps for History teaching and to report by 15th July 1911 what has been done in this matter

FRANCIS DEWSBURY B A LL B
*Registrar*

may be sent to
the University
detailing the ar-
rangement made
and showing how
it is better than
the other tem-
porary arrange-
ment of provi-
ding a room
in the Agr. Che-
mist's building

yours sincerely

Draft LY
PSD

corrected to
"truly" in
ink this 28/7

Draft
approved
LY
29/7/11

J G Tait Esq
Principal
Central College

Agrilcultural Chemist's buildings.

Yours Truly Sincerely
Sd- T Govinda Row.

J G. Tait Esqr , M A ,
Principal, Central College,
Bangalore.